

POWER SUPPLY UNIT

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Parts List of AC Power Supply Unit

	Description	Contents	Cct Number
	Thermistor	NTC SCK101R55MSY 1.5Ω M 5A Φ 10 S E138827 TKS	TH1
⚠	Surge Supression Varistor	SVR-14N561K Φ14 350VAC/460VDC K E153360 (Success Elec. Co., Ltd)	VR1
⚠	Bridge Resistor	RI81 9.1M 1/2W J E205990 (Inner Monglia Erdos Elec. Co. Ltd)	R65
	Resistor	5mΩ 8A J Φ1.6*10mm	RS2,RS3
	Resistor	WW 0.1R 3W J	R24
	Resistor	MOF 1Ω 2W J	R6
	Resistor	MOF 47K 2W J	R5
	Resistor	MF 1K 1/8W F	RS30
	Resistor	MF 1K 2W F	RS1,RS4
⚠	Fuse	TSC T 5AH/250VAC Φ5*20 E56052 (Walter Elec. Co., Ltd.)	F1
⚠	Capacitor	Class-X2 684/275VAC K 18*18.5*11*15 E120045 CARLI	CX1
⚠	Capacitor	Class-X2 334/275VAC K 18*14.5*8.5*15 E120045 CARLI	CX2
	Capacitor	MMX 684/450VDC K 17.8*14.8*7.0*15 0.8/1KHZ	C12
	Capacitor	MPD 333/300VAC K 18.2*11.6*6.5*15 0.1/1KHZ	C16
⚠	Capacitor	Y5U Class-Y1 102/250VAC 125°C M 9*6*10 E146544 (Walsin)	CY5
⚠	Capacitor	Y5P Class-Y1 471/250VAC 125°C K 10*6*10 E146544 (Walsin)	CY1,CY2
	Capacitor	150uF/450V 105°C M GP 22*36*10 710mA KM CAPXON	C13
	Capacitor	22UF/50V 105°C M GP 5*11*2.0 79mA KM	C1,C7
	Capacitor	10UF/50V 105°C M GP 5*11*2.0 54mA KM	C31
	Capacitor	47UF/25V 105°C M GP 5*11*2.0 84mA KM	C5
	Capacitor	470UF/35V 105°C M LR 8*20*3.5 1870mA GD	CS3
	Capacitor	2200uF/16V 105°C M EL 10*25*5.0 3000mA LZ	CS6,CS11
	Capacitor	470UF/16V 105°C M GP 8*11.5*3.5 370mA KM	CS7,CS12,CS14
	Capacitor	1000uF/35V 105°C M LR 12.5*20*5.0 1900mA GF	CS1,CS2
	Capacitor	CERAMIC Z5U 222/1KV M P:5mm	C10
	Capacitor	CERAMIC Y5P 221/1KV K P:5mm	C17
	Diode	1N4148 0.15A/75V DO-35 ST	DS13
	Diode	BZX55/C13V 0.5W 12.4-14.1V DO-35 ST	ZDS4
	Diode	FR107 1A/1000V DO-41 HY	D6,D10,D11
	Diode	1N4007 1A/1000V DO-41 HY	D21
	Diode	MUR460 4A/600V DO-201AD ON	D1
⚠	Opto-Coupler	PC817 CTR 130-260 DIP-4 SHARP	IC2,IC3,IC4
	IC	FSCKA431A 1% TO-92 FAIRCHILD	ICS1,ICS2
	IC	CONTROLLER ICE3B1065 PG-DIP-8-6 infineon	IC5
	三极管	NPN H2N3904 0.2A/40V TO-92 HEF100-300	QS4,Q7,Q8,Q10,Q11
	Bridge Rectifier	US6KB80R 6A/800V	BD1

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	Description	Contents	Cct Number
	Diode	SF10L60U 10A/600V TO-220F	D2
	Transistor	N STP9NK50ZFP 7.2A/500V 0.72 Ω TO-220FP ST	Q1,Q2
	Transistor	N FQA18N50V2 20A/500V 0.265 Ω TO-3P FAIRCHILD	Q4
	Diode	FCH20A10/FCH20U10 20A/100V TO-220	DS1,DS2
	Diode	FCH20A06 20A/60V TO-220	DS3,DS5
⚠	Mains Transformer	BCK-35-518D (Shenzhen Jewel Elec. & Tech. Co., Ltd)	T4
⚠	Mains Transformer	BCK-25-0169 (Shenzhen Jewel Elec. & Tech. Co., Ltd)	T2
⚠	PFC L1	JLC3584 (Shenzhen Jewel Elec. & Tech. Co., Ltd)	L1
⚠	Line Filter	JLB1805 (Shenzhen Jewel Elec. & Tech. Co., Ltd)	LF2,LF1
	电感器	JLC0510	LS1
	电感器	JLC0421	LS2,LS3
⚠	AC Main Connector	5P Connector with base (2P active) - EMS-Chemie.AG	CON1
	DC Connector	5P Connector with base	CON3
	Connector	12P Connector with base	CON4
	DC Connector	9P Connector with base	CON5
	DC Connector	4P Connector with base	CON6
	Resistor	680K 1/8W 200V J 1206	R7,R8,R45,R46
	Resistor	10K 1/8W 200V J 1206	R12,R19,R22
	Resistor	330 Ω 1/8W 200V J 1206	R37
	Resistor	47 Ω 1/8W 200V J 1206	R11,R13
	Resistor	10 Ω 1/8W 200V J 1206	R14,R52,R3,R15,R18
	Resistor	22K 1/8W 200V J 1206	R2
	Resistor	22 Ω 1/8W 200V J 1206	R21,RS13,RS14,R1
	Resistor	15K 1/8W 200V J 1206	RS22,RS41,R51,R54
	Resistor	0 Ω 1/8W 200V J 1206	JP3,JP8,JP33,JP41,JP44
	Resistor	1K 1/8W 200V J 1206	RS35,RS37
	Resistor	2K 1/8W 200V J 1206	R10
	Resistor	13K 1/8W 200V F 1206	R29
	Resistor	100 Ω 1/8W 200V J 1206	R38
	Resistor	470 Ω 1/8W 200V J 1206	RS39,RS40
	Resistor	680K 1/8W 200V F 1206	R26,R27,R28,R43,R44,R64
	Resistor	1M 1/8W 200V J 1206	R60,R61,R62
	Resistor	510K 1/8W 200V J 1206	R34
	Resistor	4.7 Ω 1/8W 200V J 1206	R25
	Resistor	16K 1/10W 150V F 0805	RS8
	Resistor	220 Ω 1/10W 150V J 0805	RS21,RS28
	Resistor	100K 1/10W 150V J 0805	R40,R55,R57,R66
	Resistor	20K 1/10W 150V J 0805	RS24
	Resistor	1M 1/10W 150V J 0805	R59
	Resistor	15K 1/10W 150V J 0805	RS29,R35
	Resistor	8.2k 1/10W 150V F 0805	R16
	Resistor	330 Ω 1/10W 150V J 0805	R41
	Resistor	3.09K 1/10W 150V F 0805	RS18
	Resistor	3.3K 1/10W 150V J 0805	R36
	Resistor	680 Ω 1/10W 150V F 0805	RS16,RS26

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	Description	Contents	Cct Number
	Resistor	390K 1/10W 150V F 0805	R56,R58
	Resistor	0Ω 1/10W 150V J 0805	JP25,JP39,JP40
	Resistor	1K 1/10W 150V J 0805	RS19,RS33,RS36
	Resistor	6.2K 1/10W 150V F 0805	RS5
	Resistor	47K 1/10W 150V J 0805	RS25
	Resistor	3K 1/10W 150V F 0805	RS6,RS20
	Resistor	4.7K 1/10W 150V J 0805	R4,R39
	Resistor	33K 1/10W 150V F 0805	RS9
	Resistor	10K 1/10W 150V J 0805	RS7,RS31,RS32,R67
	Resistor	2K 1/10W 150V F 0805	RS10,RS17,RS27
	Capacitor	NPO 102/50V J 1206	CS13
	Capacitor	X7R 103/50V K 0805	C20,C41
	Capacitor	X7R 224/50V K 0805	C40
	Capacitor	X7R 105/25V K 0805	C6,C9,C21,CS27
	Capacitor	X7R 333/50V K 0805	C15
	Capacitor	X7R 223/50V K 0805	C24
	Capacitor	NPO 10/50V J 0805	C3
	Capacitor	NPO 102/50V J 0805	C18,C26
	Capacitor	X7R 104/50V K 0805	C4,C8,C19,C25,C29,C42,CS4,CS10,CS15,CS17,CS20,CS21,CS22,CS23,CS24,CS25,CS26,CS28,CS29,CS30,CS31,CS32
	Diode	LS4148 0.15A/100V LS-34	D3,D4,D5,D7,D8,D15,D16,D22,DS9,DS10,DS11,DS12
	Transistor	PNP MMBT3906LT1G -0.2A/40V SOT-23 HFE100-300 ON	QS2,Q6
	Transistor	NPN MMBT3904LT1G 0.2A/40V SOT-23 HEF100-400 ON	QS3
	IC	AS431HM/TR-LF 1% SOT-23-3 A1semi	ICS5
	Diode	ZMM13V 0.5W 12.4-14.1V LL-34 ST	ZD4
	Diode	ZMM18V 0.5W 16.8-19.1V LL-34 ST	ZD2,ZD3
	Diode	ZMM27V 0.5W 25.1-28.9V LL-34 ST	ZDS1
	Diode	ZMM15V 0.5W 13.8-15.6V LL-34 ST	ZDS2,ZD6
	MOS Transistor	N 2SK3919 64A/25V 0.0056Ω TO-252 NEC	QS1
	IC	COMPARATORS LM393DR2G SOIC-8 ON	ICS3
	IC	CONTROLLER L6599D SO-16N ST	IC6
	IC	PFC FAN7530MX 8-SOP Fairchild	IC1
	Capacitor	NPO 331/50V J 0805	C28
	Capacitor	X5R 106/6.3V K 0805	CS33
	Capacitor	NPO 221/50V J 0805	C32
	Diode	ZMM13HSC 0.5W 13.03-13.62V LL-34 ST	ZD5
	Resistor	560Ω 1/8W 200V J 1206	RS23
	Capacitor	X7R 473/50V K 0805	CS9
	Capacitor	X7R 474/25V K 0805	CS18
	Capacitor	150uF/450V 105°C M GP 22*36*10 710mA KM CAPXON	C13